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## PCT REQUEST

96605/22PCT

Original (for SUBMISSION) - printed on 24.10.2003 07:41:18 PM

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.07.2003)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	96605/22PCT
I	Title of Invention	SUPERCONDUCTING ARRAY OF SURFACE MRI PROBES
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	THE UNIVERSITY OF HOUSTON SYSTEM
II-5	Address:	4800 Calhoun Street Ezekel Cullen Bldg., Rm 316 Houston, TX 77204-2163 United States of America
II-6	State of nationality	US
II-7	State of residence	US
II-8	Telephone No.	713.743.9104
II-9	Facsimile No.	713.743.9227
II-10	e-mail	JPWarren@Central.UH.EDU
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	WOSIK, Jaroslaw
III-1-5	Address:	2807 Conway Houston, TX 77025 United States of America
III-1-6	State of nationality	PL
III-1-7	State of residence	US
III-1-8	Telephone No.	(713) 743-8237
III-1-9	Facsimile No.	(713) 977-7000

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III-2	Applicant and/or inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	NESTERUK, Krzysztof
III-2-5	Address:	Poland
III-2-6	State of nationality	PL
III-2-7	State of residence	PL
III-3	Applicant and/or inventor	
III-3-1	This person is:	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	XIE, Leiming, P.
III-3-5	Address:	6310 Rampart Street, APT 30 Houston, TX 77081 United States of America
III-3-6	State of nationality	US
III-3-7	State of residence	US
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	STROZIER, Robert, W.
IV-1-2	Address:	2925 Briarpark Drive Suite 930 Houston, TX 77042 United States of America
IV-1-3	Telephone No.	713.977.7000
IV-1-4	Facsimile No.	713.977.7011
IV-1-5	e-mail	rwstroz@flash.net
IV-1-5	Agent's registration No.	34024

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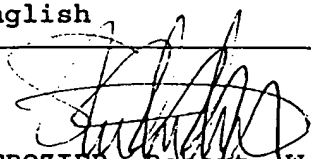
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<b>V</b>	<b>Designation of States</b>	
<b>V-1</b>	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	<p>AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT</p> <p>EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT</p> <p>EP: AT BE CH&amp;LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR and any other State which is a Contracting State of the European Patent Convention and of the PCT (except BG CZ EE HU RO SI SK)</p> <p>OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT</p>
<b>V-2</b>	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	<p>AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&amp;LI CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW</p>
<b>V-5</b>	Precautionary Designation Statement  In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
<b>V-6</b>	Exclusion(s) from precautionary designations	NONE
<b>VI-1</b>	Priority claim of earlier national application	
VI-1-1	Filing date	24 October 2002 (24.10.2002)
VI-1-2	Number	60/420,913
VI-1-3	Country	US

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VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	5	-
IX-2	Description	23	-
IX-3	Claims	6	-
IX-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	14	-
IX-7	TOTAL	49	
	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-17	PCT-EASY diskette	-	Diskette
IX-19	Figure of the drawings which should accompany the abstract	10	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)	STROZIER, Robert, W. 10/24/03	

## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	

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10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

## FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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## PCT (ANNEX - FEE CALCULATION SHEET)

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(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only	
0-1	International Application No.	
0-2	Date stamp of the receiving Office	
0-4	Form - PCT/RO/101 (Annex) PCT Fee Calculation Sheet Prepared using	PCT-EASY Version 2.92 (updated 01.07.2003)
0-9	Applicant's or agent's file reference	96605/22PCT
2	Applicant	THE UNIVERSITY OF HOUSTON SYSTEM, et al.
12	Calculation of prescribed fees	fee amount/multiplier      Total amounts (USD)
12-1	Transmittal fee T	⇒ 240
12-2-1	Search fee S	⇒ 1,119
12-2-2	International search to be carried out by	EP
12-3	International fee Basic fee (first 30 sheets) b1	476
12-4	Remaining sheets	19
12-5	Additional amount (X)	12
12-6	Total additional amount b2	228
12-7	b1 + b2 = B	704
12-8	Designation fees Number of designations contained in international application	92
12-9	Number of designation fees payable (maximum 5)	5
12-10	Amount of designation fee (X)	104
12-11	Total designation fees D	520
12-12	PCT-EASY fee reduction R	-148
12-13	Total International fee (B+D-R) I	⇒ 1,076
12-14	Fee for priority document Number of priority documents requested	1
12-15	Fee per document (X)	20
12-16	Total priority document fee P	⇒ 20
12-17	TOTAL FEES PAYABLE (T+S+I+P)	⇒ 2,455
12-19	Mode of payment	cheque

VALIDATION LOG AND REMARKS

## PCT (ANNEX - FEE CALCULATION SHEET)

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13-2-2	Validation messages States	Green? More designations could be made. The following States have not been designated: EP:( BG, CZ, EE, HU, RO, SI, SK); EG, NI, PG, SC, SY, VC. Please verify.
		Green? One or more states has been deselected from the EP designation. Please verify.
13-2-3	Validation messages Names	Yellow Applicant 3.:Street address missing
		Yellow Applicant 3.:City missing
		Yellow Applicant 3.:Postal code missing
13-2-7	Validation messages Contents	Yellow! The power of attorney or a copy of the general power of attorney will need to be furnished unless all applicants sign the request form.

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**PCT-EASY INFORMATION SHEET**

(For applicant use only, DO NOT submit this sheet with the international application)

**VALIDATION LOG**

Green?	<b>States</b> More designations could be made. The following States have not been designated: EP:( BG, CZ, EE, HU, RO, SI, SK); EG, NI, PG, SC, SY, VC. Please verify.
Green?	One or more states has been deselected from the EP designation. Please verify.
Yellow	<b>Names</b> Applicant 3.:Street address missing
Yellow	Applicant 3.:City missing
Yellow	Applicant 3.:Postal code missing
Yellow!	<b>Contents</b> The power of attorney or a copy of the general power of attorney will need to be furnished unless all applicants sign the request form.
Green?	<b>Annotate</b> The name of the person signing the request has not been indicated.

Before submitting the International Application, please carefully verify that:

- the information contained on printed Request form is correct;
- Box X of the Request form has been signed;
- all elements of the international application as indicated in Boxes VIII and IX of the Request form have been attached; and,
- the diskette containing the PCT-EASY zip file of the International Application has been enclosed and has been clearly labeled "PCT-EASY", with the applicant's or agent's file reference, and the first applicant's name.

**ATTENTION**

DO NOT modify any indications on the Request form printout. The electronic version of the PCT-EASY application has been locked. If an error or an omission is discovered at this time, you must reopen the stored form for submission, perform necessary amendments and immediately resubmit the form. Finally, a NEW submission diskette must be created manually by resending the corrected stored form to the diskette. The previously created printout and submission diskette must be destroyed in order to prevent the possibility of erroneously sending it to the RO.



An array of resonators for use in MRI and NMR is disclosed where the resonators are solid state constructs including a pair of resonating elements formed on both sides of a dielectric substrate and cooperate to form a resonator and where each resonator includes at least one discontinuity and the discontinuities on each resonating element are equally spaced and between the resonating elements are equally spaced. A probe for MRI is also disclosed which includes a source of cooling to cool the arrays therein.